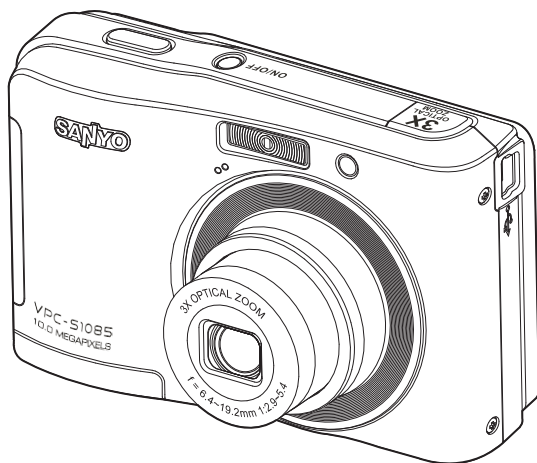




INSTRUCTION MANUAL

VPC-S1085

Digital Camera



Please read these instructions carefully before using the camera.
Keep this manual in a safe place for later reference.

FCC STATEMENT

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Note:

This equipment has been tested and found to comply with the limits for Class B digital devices, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Use of shielded cable is required to comply with Class B limits in Subpart B of Part 15 of the FCC rules.

Do not make any changes or modifications to the equipment unless otherwise specified in the manual. If such changes or modifications should be made, you could be required to stop operation of the equipment.

Notice

If static electricity or electromagnetism causes data transfer to discontinue midway (fail), restart the application or disconnect and connect the communication cable (USB, etc.) again.

READ THIS FIRST

Trademark Information

- Microsoft® and Windows® are U.S. registered trademarks of Microsoft Corporation.
- Pentium® is a registered trademark of Intel Corporation.
- Macintosh is a trademark of Apple Inc.
- SD™ is a trademark.
- SDHC™ is a trademark.



- Other names and products may be trademarks or registered trademarks of their respective owners.

Product Information

- Product design and specifications are subject to change without notice. This includes primary product specifications, software, software drivers, and user's manual. This User Manual is a general reference guide for the product.
- The product and accessories that come with your Camera may be different from those described in this manual. This is due to the fact that different retailers often specify slightly different product inclusions and accessories to suit their market requirements, customer demographics, and geographical preferences. Products very often vary between retailers especially with accessories such as batteries, chargers, AC adapters, memory cards, cables, pouches, and language support. Occasionally a retailer will specify a unique product color, appearance, and internal memory capacity. Contact your dealer for precise product definition and included accessories.
- The illustrations in this manual are for the purpose of explanation and may differ from the actual design of your Camera.
- The manufacturer assumes no liability for any errors or discrepancies in this user manual.

SAFETY INSTRUCTIONS

Read and understand all **Warnings** and **Cautions** before using this product.

Warnings

If foreign objects or water have entered the Camera, turn the power off and remove the batteries.

Continued use might cause fire or electric shock. Consult the store of purchase.



If the Camera has fallen or its case has been damaged, turn the power off and remove the batteries.

Continued use might cause fire or electric shock. Consult the store of purchase.



Do not disassemble, change or repair the Camera.

This might cause fire or electric shock. For repair or internal inspection, ask the store of purchase.



Do not use the Camera in areas near water.

This might cause fire or electric shock. Take special care during rain, snow, on the beach, or near the shore.



Do not place the Camera on inclined or unstable surfaces.

This might cause the Camera to fall or tilt over, causing damage.



Keep the batteries out of the reach of children.

Swallowing the batteries might cause poisoning. If the batteries are accidentally swallowed, immediately consult a physician.



Do not use the Camera while you are walking, driving or riding a motorcycle.

This might cause you to fall over or result in traffic accident.



Please use batteries with complete external seals.

Do not use batteries from which the seals have been damaged or removed. This may cause leakage, explosion, or injury.



Cautions

Insert the battery paying careful attention to the polarity (+ or –) of the terminals.

Inserting the battery with its polarities inverted might cause fire and injury, or damage to the surrounding areas due to the battery rupturing or leaking.



Do not fire the flash close to anyone's eyes.

This might cause damage to the person's eyesight.



Do not subject the LCD monitor to impact.

This might damage the glass on the screen or cause the internal fluid to leak. If the internal fluid enters your eyes or comes into contact with your body or clothes, rinse with fresh water. If the internal fluid has entered your eyes, consult a physician to receive treatment.



Camera is a precision instrument. Do not drop it, strike it or use excessive force when handling the Camera.

This might cause damage to the Camera.



Do not use the Camera in humid, steamy, smoky, or dusty places.

This might cause fire or electric shock.



Do not remove the battery immediately after long period of continuous use.

The battery becomes hot during use. Touching a hot battery might cause burns.



Do not wrap the Camera or place it in cloth or blankets.

This might cause heat to build up and deform the case, resulting in fire. Use the Camera in a well-ventilated place.



Do not leave the Camera in places where the temperature may rise significantly, such as inside a car.

This might adversely affect the case or the parts inside, resulting in fire.



Before you move the Camera, disconnect cords and cables.

Failure to do this might damage cords and cables, resulting in fire and electric shock.



Warning:

TO PREVENT THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE

FOR AMERICAN USERS

The following advisory is included in accordance with the laws of the State of California (USA):

WARNING:

This product contains chemicals, including lead, known to the States of California to cause cancer, birth defects or other reproductive harm. ***Wash hands after handling.***

- This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designated to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
 - * Reorient or relocate the receiving antenna.
 - * Increase the separation between the equipment and receiver.
 - * Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
 - * Consult the dealer or an experienced radio/TV technician for help.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FOR CANADIAN USERS

- This Class B digital apparatus complies with Canadian ICES-003

FOR EU USERS



The symbol mark and recycling systems described below apply to EU countries and do not apply to countries in other areas of the world.

Your SANYO product is designed and manufactured with high quality materials and components which can be recycled and/or reused.

The symbol mark means that electrical and electronic equipment, batteries and accumulators, at their end-of-life, should be disposed of separately from your household waste.

Note:

If a chemical symbol is printed beneath the symbol mark, this chemical symbol means that the battery or accumulator contains a heavy metal at a certain concentration.

This will be indicated as follows: Hg: mercury, Cd: cadmium, Pb: lead

In the European Union there are separate collection systems for used electrical and electronic equipment, batteries and accumulators.

Please, dispose of them correctly at your local community waste collection/recycling centre.

Please, help us to conserve the environment we live in!

Manufacturer and Address

SANYO Electric Co., Ltd.
5-5, Keihan-hondori, 2-chome,
Moriguchi City, Osaka, Japan

Authorized Representative and Address

SANYO FISHER Sales (Europe) GmbH
Stahlgruberring 4, D-81829 Munich, Germany

Symbols used in this manual



- Points giving some extended instructions or special points to pay attention to.

You may find the answers to questions or problems concerning camera operation in the sections “Troubleshooting”.

FCC information



Tested To Comply
With FCC Standards

FOR HOME OR OFFICE USE

Declaration of Conformity

Model number: VPC-S1085

Trade Name: SANYO

Responsible party: SANYO FISHER COMPANY

Address: 21605 Plummer Street
Chatsworth, California 91311

Telephone No.: (818) 998-7322

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Canadian ICES-003 information

This class B digital apparatus complies with Canadian ICES-003.

Notes on Battery Usage

When you use the batteries, carefully read and strictly observe the ***Safety Instructions*** and the notes described below:

- Use only the specified batteries.
- Avoid extremely cold environments as low temperatures can shorten the battery life and reduce Camera performance. Therefore Ni-MH rechargeable batteries are highly recommended.
- When you are using a new rechargeable batteries or rechargeable batteries that have not been used for an extended period of time (the batteries that passed the expiry date are exception), it may affect the number of images that can be captured. Therefore, to maximize their performance and lifetime, we recommend that you fully charge the batteries and discharge them for at least one complete cycle before use.
- The batteries may feel warm after a long period of continuous use of the Camera or the flash. This is normal and not a malfunction.
- The Camera may feel warm after a long period of continuous use. This is normal and not a malfunction.
- If the batteries are not to be used for a long period of time, remove them from the Camera to prevent leakage or corrosion and store them after no battery power is left. Stored for a long time in a fully charged condition, their performance may be impaired.
- Always keep the battery terminals clean.
- There is a risk of explosion if the batteries are replaced by an incorrect type.
- Dispose of used batteries according to the recycle instructions.
- Charge the rechargeable batteries fully before using for the first time.
- Never use batteries of different types (together) or mix old and new batteries.
- Never use manganese batteries.
- To prevent short-circuiting or fire, keep the batteries away from other metal objects when carrying or storing.

CONTENTS

10 INTRODUCTION

- 10 Overview
- 10 Package Contents

11 GETTING TO KNOW YOUR CAMERA

- 11 Front View
- 12 Rear View
- 13 LCD Monitor Display

15 GETTING STARTED

- 15 Preparation
- 16 Initial Settings

18 CAPTURE MODE

- 18 Capturing Images
- 19 Setting the Scene Mode
- 21 Setting the Panorama Mode
- 22 Taking Images When the Smile Feature Is On
- 23 Recording Shots into Multiple Image Layout
- 23 Recording Shots using Face Detection Technology

24 VIDEO MODE

- 24 Recording Video Clips
- 24 Playing Back Video Clips

25 PLAYBACK MODE

- 25 Playing Back Still Images
- 26 Thumbnail Display
- 26 Removing Red-eye
- 27 Attaching Voice Memos
- 28 Protecting Images
- 29 Erasing Images

30 MENU OPTIONS

- 30 Capture Menu
- 33 Video Menu
- 34 Playback Menu
- 35 Setup Menu

37 TRANSFERRING FILES TO YOUR COMPUTER

- 37 Downloading Your Files

38 EDITING SOFTWARE INSTALLATION

39 SPECIFICATIONS

40 APPENDIX

- 40 Possible Number of Shots
- 41 Troubleshooting
- 42 Connecting to a PictBridge Compliant Printer

INTRODUCTION

Overview

Congratulations on your purchase of the new digital camera.

Capturing high-quality digital images is fast and easy with this state-of-the-art smart camera. Equipped with a 10.0-megapixel CCD, this camera is capable of capturing images with a resolution of up to 3648 x 2736 pixels.

Package Contents

Carefully unpack your camera and ensure that you have the following items:

Common Product Components:

- Digital Camera
- Instruction manual
- Software CD-ROM
- USB cable
- Camera strap
- Camera pouch
- 2 x AA size batteries

Optional Accessory:

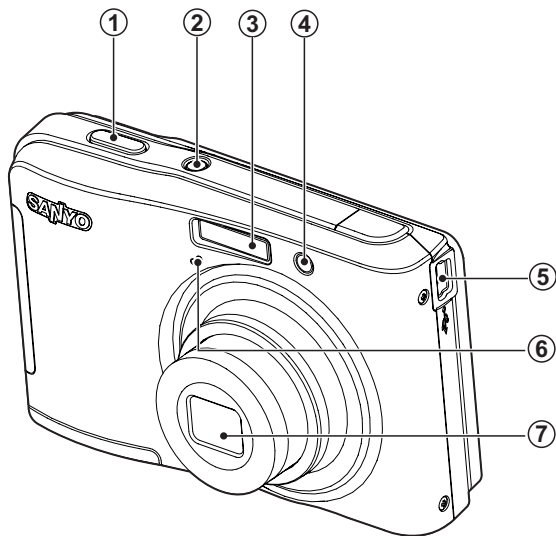
- SD/SDHC memory card



-
- Accessories and components may vary by retailer.

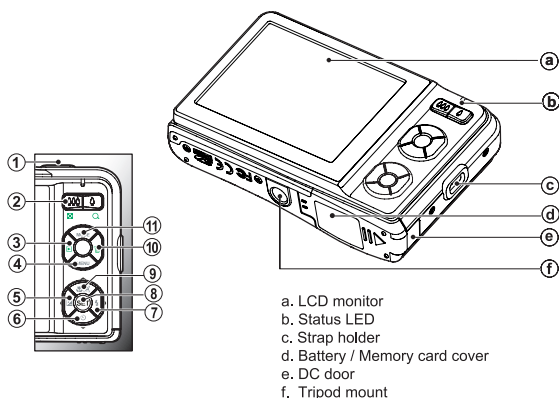
GETTING TO KNOW YOUR CAMERA

Front View



- | |
|-------------------------------|
| 1. Shutter button |
| 2. ON/OFF Power button |
| 3. Flash |
| 4. Self-timer LED |
| 5. USB terminal |
| 6. Microphone |
| 7. Lens |

Rear View

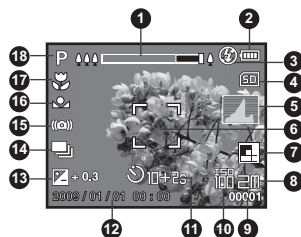


Item	Function		
	Capture Mode	Video Mode	Playback Mode
1.	Shutter button	Record button	Still image: to capture mode Video clip: to video mode
2.	:Zooms out :Zooms in	:Zooms out :Zooms in	:Thumbnail :Zooms in
3.	Playback mode	Playback mode	Still image: to capture mode Video clip: to video mode
4.	Capture menu	Video menu	Playback menu
5.	Compensation 	--	Previous image
6.	Self-timer	Self-timer	--
7.	Flash	--	Next image
8.	If any scene mode is set: switches to scene mode selection screen	--	Still image: to display image Records voice memo (if "Voice Memo" is "On"). Video clip: to play video clip
9.	Focus	Focus	--
10.	--	--	Delete
11.	Switches to: Video mode > Scene mode selection screen	Switches to: Scene mode selection screen> Capture mode	Still image: to capture mode Video clip: to video mode

LCD Monitor Display

Capture mode

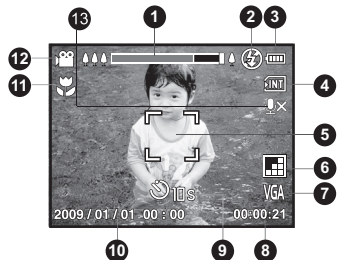
1. Zoom status
2. Battery condition
 - [Full] Full battery power
 - [Medium] Medium battery power
 - [Low] Low battery power
 - [Empty] No battery power
3. Flash mode
 - [Blank] Auto
 - [Flash On] Flash On
 - [Flash Off] Flash Off
 - [Red-eye] Red-eye
 - [Slow Sync] Slow Sync
 - [Pre-flash] Pre-flash
4. Storage media
 - [Internal] Internal memory (no card)
 - [SD/SDHC] SD/SDHC memory card
5. Histogram
6. Main focus area
7. Image quality
 - [Fine] Fine
 - [Standard] Standard
 - [Economy] Economy
8. Image size resolution
 - [10M] 3648 x 2736
 - [8M] 2816 x 2112
 - [6M] 2304 x 1728
 - [4M] 1600 x 1200
 - [VGA] 640 x 480
9. Available number of shots
10. ISO
 - [Blank] Auto
 - [64] ISO 64
 - [100] ISO 100
 - [200] ISO 200
 - [400] ISO 400
 - [800] ISO 800
 - [1600] ISO 1600
11. Self-timer icon
 - [2 sec.] 2 sec.
 - [10 sec.] 10 sec.
 - [10+2 sec.] 10+2 sec.
12. Date and time
13. [On] Exposure compensation
[Off] Backlight correction
(Adjust exposure value with the ◀ / ▶ buttons)
14. Capture mode icon
 - [Blank] Single
 - [Continuous] Continuous
 - [AEB] AEB (Auto Exposure Bracketing)
 - [Album] Album Shot



15. Slow shutter warning
16. White balance
 - [Blank] Auto
 - [Incand.] Incand.
 - [Fluoresc.1] Fluoresc.1
 - [Fluoresc.2] Fluoresc.2
 - [Daylight] Daylight
 - [Cloudy] Cloudy
 - [Manual WB] Manual WB
17. Focus setting
 - [Blank] Auto
 - [Face Detect] Face Detect
 - [Macro] Macro
 - [Infinity] Infinity
18. Mode icon / Scene mode
 - [A] Auto
 - [Smile Detection] Smile Detection
 - [Anti-shake] Anti-shake
 - [Panorama] Panorama
 - [Portrait Man] Portrait Man
 - [Portrait Lady] Portrait Lady
 - [Landscape] Landscape
 - [Sports] Sports
 - [Night Portrait] Night Portrait
 - [Night Scene] Night Scene
 - [Candlelight] Candlelight
 - [Fireworks] Fireworks
 - [Text] Text
 - [Sunset] Sunset
 - [Sunrise] Sunrise
 - [Splash Water] Splash Water
 - [Flow Water] Flow Water
 - [Snow] Snow
 - [Beach] Beach
 - [Pets] Pets
 - [Natural Green] Natural Green
 - [P] Program AE

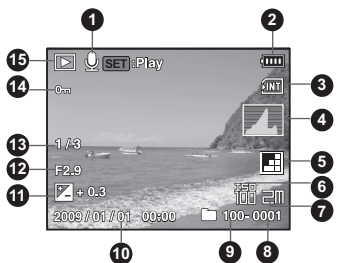
Video mode

1. Zoom status
2. Flash mode
3. Battery condition
4. Storage media
5. Main focus area
6. Video quality
7. Video resolution
8. Available recording time/Elapsed time
9. Self-timer icon
10. Date and time
11. Focus setting
12. Mode icon
13. Sound off icon



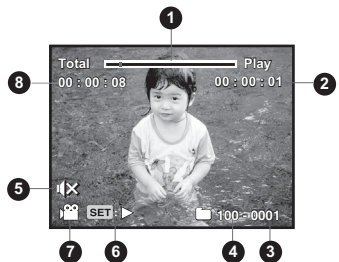
Playback mode - Still image playback

1. Voice memo
2. Battery condition
3. Storage media
4. Histogram
5. Image quality
6. ISO
7. Image size resolution
8. File number
9. Folder number
10. Date and time
11. Exposure value
12. Aperture value
13. Shutter speed value
14. Protect icon
15. Mode icon



Playback mode - Video playback

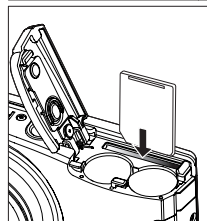
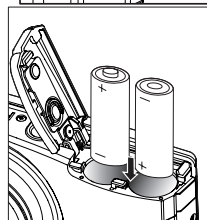
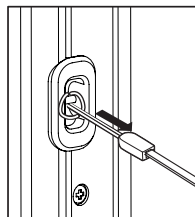
1. Video status bar
2. Elapsed time
3. File number
4. Folder number
5. Sound off icon (When the ▲ button is pressed during video playback)
 - You cannot play sounds because the camera does not support the speaker function. Please use PC or other media to play the videos/still images with sounds.
6. Play mode
7. Mode icon
8. Total recorded time



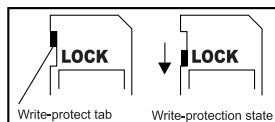
GETTING STARTED

Preparation

1. Attach the camera strap.
2. Open the battery/memory card cover.
3. Insert the supplied batteries with correct orientation as shown.
4. Insert an SD/SDHC memory card (Optional).
 - The camera has 32MB internal memory (26MB available for image storage), but you can load an SD/SDHC memory card to expand the camera's memory capacity.
 - Be sure to format the memory card with this camera before its initial usage.
5. Close the battery/memory card cover and make sure it is locked securely.



- To prevent valuable data from being accidentally erased from an SD/SDHC memory card, you can slide the write protect tab (on the side of the SD/SDHC memory card) to "LOCK".
- To save, edit, or erase data on an SD/SDHC memory card, you must unlock the card.
- To prevent damaging of an SD/SDHC memory card, be sure to turn off the power when inserting or removing the SD/SDHC memory card. If inserting or removing the SD/SDHC memory card with the power on, the camera will automatically turn off.



Initial Settings

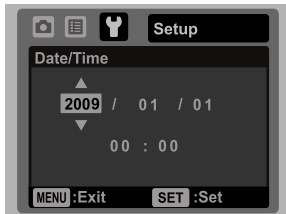
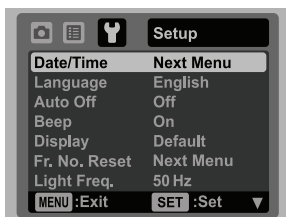
Setting the Date and Time

The date/time needs to be set if and when:

- The camera is turned on for the first time.
- The camera is turned on after leaving the camera without the batteries for an extended period of time.

When the date and time information is not displayed on the LCD monitor, follow these steps to set the correct date and time.

1. Press the **MODE** button, and set the camera mode to [] or []; or press the button.
2. Press the **MENU** button.
3. Select [Setup] with the button.
4. Select [Date/Time] with the / buttons, and press the **SET** button.
5. Select the date format with the / buttons, and press the **SET** button.
 - Select the item's field with the / buttons and adjust the value for the date and time with the / buttons.
 - The time is displayed in 24-hour format.
 - After confirming all settings are correct, press the **SET** button.
6. To exit from the [Setup] menu, press the **MENU** button.



Choosing the Language

Specify in which language menus and messages are to be displayed on the LCD monitor.

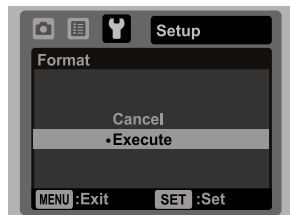
1. Press the **MODE** button, and set the camera mode to [**A**] or [**99**]; or press the **▶** button.
2. Press the **MENU** button.
3. Select [Setup] menu with the **▶** button.
4. Select [Language] with the **▲** / **▼** buttons and press the **SET** button.
5. Select the displayed language with the **▲** / **▼** buttons and press the **SET** button.
 - The setting will be stored.
6. To exit from the [Setup] menu, press the **MENU** button.



Formatting the Memory Card or Internal Memory

This utility formats the memory card (or internal memory) and erases all stored images and data.



1. Press the **MODE** button, and set the camera mode to [**A**] or [**99**]; or press the **▶** button.
2. Press the **MENU** button.
3. Select [Setup] menu with **▶** button.
4. Select [Format] with the **▲** / **▼** buttons, then press the **SET** button.
5. Select [Execute] with the **▲** / **▼** buttons, and press the **SET** button.
 - To cancel formatting, select [Cancel] and press the **SET** button.
6. To exit from the [Setup] menu, press the **MENU** button.

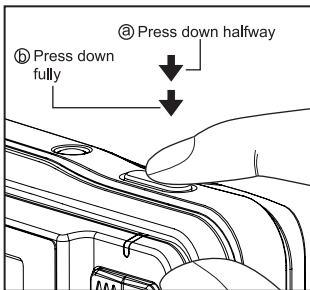


CAPTURE MODE

Capturing Images

Your camera is equipped with a 2.7" full color TFT LCD monitor to help you compose images, playback recorded images/video clips or adjust menu settings.

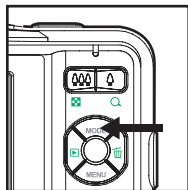
1. Press the **ON/OFF** button to turn the power on.
 - The status LED lights green and the camera is initiated.
2. Press the **MODE** button, and set the camera mode to [**A**].
3. Compose your image in the LCD monitor.
 - Pressing the  button zooms in on the subject, and enlarges the subject on the LCD monitor.
 - Pressing the  button zooms out on the subject, and provides a wider angle image.
4. Press the shutter button.
 - Pressing the shutter button down halfway automatically focuses and adjusts the exposure, and pressing the shutter button down fully captures the image.
 - The focus area frame turns green when the camera is in focus and the exposure is calculated.
 - When the focus is not suitable, the frame of the focus area turns red.



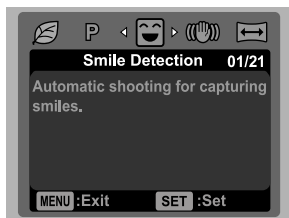
Setting the Scene Mode

By simply selecting one of the available 21 scene modes, you can capture the image with the most appropriate settings.









1. Press the **MODE** button until the scene mode selection screen appears.















2. Select the desired scene mode with the ◀ / ▶ buttons, and press the **SET** button.
3. Compose the image and press the shutter button.



The table below will help you choose the appropriate scene mode:

Scene mode	Description
 Smile Detection	Select this mode to automatically capture an image when a smiling face is detected.
 Anti-shake	This mode minimizes the influences of hand shaking when you want to capture an image.
 Panorama	Select this mode when you want to capture a series of shots then stitch them together with software to make a single photo on the computer.
 Portrait Man	Select this mode when you want to capture an image that makes a man stand out against a blurred background.
 Portrait Lady	Select this mode when you want to capture an image that makes a lady stand out against a blurred background.
 Landscape	Select this mode when you want to capture an image with infinity focus, hard sharpness and high saturation.
 Sports	Select this mode when you want to capture fast-moving subjects.
 Night Portrait	Select this mode when you want to capture people with an evening or night scene background.

Scene mode	Description
 Night Scene	Select this mode when you want to capture dark scenes such as night views.
 Candlelight	Select this mode when you want to capture photos of candlelight scene, without spoiling the ambience.
 Fireworks	Select this mode when you want to capture fireworks clearly with optimal exposure. The shutter speed becomes slower, so using a tripod is recommended.
TEXT Text	Select this mode when you want to capture an image that contains black and white subjects like printed documents.
 Sunset	Select this mode when you want to capture a sunset. This mode helps keep the deep hues in the scene.
 Sunrise	Select this mode when you want to capture a sunrise. This mode helps keep the deep hues in the scene.
 Splash Water	Select this mode when you want to capture photos of splashing water.
 Flow Water	Select this mode when you want to capture the soft flowing water.
 Snow	Select this mode when you want to capture clear snow scenes without darkened subjects and bluish tint.
 Beach	Select this mode when you want to capture bright beach scenes and sunlit water surfaces.
 Pets	Select this mode when you want to capture your pets. Shoot from their eye level.
 Natural Green	Select this mode when you want to capture the green scenery background such as forest. This mode helps to brighten the colors.
 Program AE	This mode allows you to manually set parameters other than the shutter speed and the aperture value.

Setting the Panorama Mode

This mode is designed to make it easier to take a series of shots then stitch them together with software to make a single image. You can capture a photographic subject that won't fit into a single frame, such as a landscape, and stitch it together later with a program such as Arcsoft Panorama Maker® 4.0 application.

1. Press the **MODE** button until the scene mode selection screen appears.
2. Select [Panorama] with the ◀ / ▶ buttons, and press the **SET** button.
3. Select the photographic direction with the ◀ / ▶ buttons.
4. Shoot the first image.
 - The next image appears beside the previous image.
5. Orient the camera so that the second frame overlaps a small portion of the photographic subject of the first image and press the shutter button to capture the next image.
6. Follow the same steps to capture subsequent images in the sequence.
7. Finish the sequence by pressing the **MENU** button or switch to another mode after the last image has been recorded.

(e.g.: Editing with Arcsoft Panorama Maker® 4.0)

Arcsoft Panorama Maker® 4.0 - Like magic, ArcSoft Panorama Maker® 4 turns any series of overlapping photos into a gorgeous panoramic image in just seconds. The program does most of the work for you by automatically selecting an entire group of pictures with one click, automatically organizing the photos into the proper order, then seamlessly stitching the photos into a panoramic masterpiece that you can print, share or post to the web. Create horizontal, vertical and 360° panorama pictures all within this one amazing program.

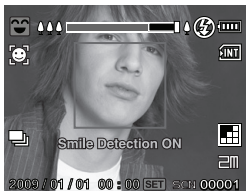
To install software:


1. Insert the CD-ROM that came with the camera into your CD-ROM drive.
The welcome screen appears.
2. Click the respective software name.
Follow the on-screen instructions to complete the installation.

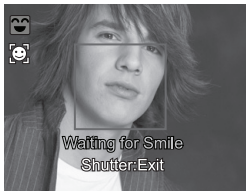
Taking Images When the Smile Feature Is On

With the camera's new "smile detection" function, this camera detects smiles so you do not miss those special moments in life.

1. Press the **MODE** button until the scene mode selection screen appears.
2. Select [Smile Detection] with the ◀ / ▶ buttons, and press the **SET** button.
3. Compose the image, and press the shutter button down fully.



4. Once the camera detects a smile, it will automatically capture 3 images (by default, the flash mode setting is set to ).
 - If the [Capture Md.] is set to [Single], the camera will only capture an image after it detects a smile.
 - When capturing group shots (if the number of people is more than 1), the camera will automatically capture the image(s) when it detects two smiles.
 - If the camera does not detect a smile within 1 minute, the camera returns to preview display.
 - Press the shutter button once again to reactivate this function.





Recording Shots into Multiple Image Layout

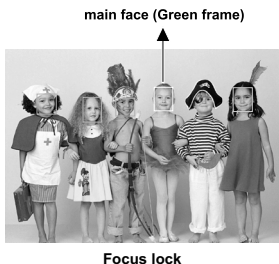
The Album Shot mode enables you to easily record images and combine three shots into a single image.

1. Press the **MODE** button, and set the camera mode to [**A**].
2. Press the **MENU** button, and select the [Function] menu with the **▶** button.
3. Select [Capture Md.] with the **▲** / **▼** buttons, and press the **SET** button.
4. Select [Album Shot] with the **▲** / **▼** buttons, and press the **SET** button.
5. Press the **MENU** button.
6. Press the shutter button to capture the first image.
7. Press the shutter button again to capture the second and third images.
 - The camera returns to normal preview display by pressing the **▼** button. Press the **▼** button again to switch back to album shot preview display.
 - This shot can only be recorded if there are 3 shots recorded in each of the available frames.

Recording Shots using Face Detection Technology

Face Detection Technology can identify and focus on the human faces in the image. This advanced function simultaneously detects up to 10 human faces regardless of their position in the scene.

1. Press the **MODE** button, and set the camera mode to [**A**].
2. Press the  button, and select [] icon with the **◀** / **▶** buttons. Press the **SET** button.
 - With Face Detection turned on, the camera identifies main face (white frame) and subsidiary faces (gray frames).
 - If the camera cannot detect and track any faces, there will be no frame shown on the screen.
3. Press the shutter button halfway down to lock the focus.
 - When the main face is in focus, the white frame simultaneously turns green. Otherwise, it turns red.
4. Press the shutter button down fully to capture your image.




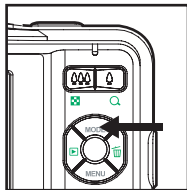
- Subjects that are not suitable with this function:
 - a. A person is wearing glasses, sunglasses, or face is covered with hat or hair.
 - b. A person turns sideways.

VIDEO MODE

Recording Video Clips

This mode allows you to record video clips at a resolution of 320 x 240 / 640 x 480 pixels.







1. Press the **MODE** button, and set the camera mode to [].
2. Compose the image.
3. Press the shutter button.
 - The recording of the video clip will start.
 - Pressing the shutter button one more time will end the recording of the video clip.
 - The recording time depends on the storage size and the subject of the image to be recorded.
 - The zoom function cannot be used during video recording.



- When recording a video clip, the flash and "10+2 sec." self-timer function cannot be used.
- If the write speed of your SD/SDHC memory card is not fast enough for recording video clips in the currently selected quality, the video recording will stop. In this case, select a video quality lower than the current one.

Playing Back Video Clips

You can play back recorded video clips on the camera.

1. Press the  button.
 - The last image appears on the screen.
2. Select the desired video clip with the  /  buttons.
3. Press the **SET** button.
 - A press of the  /  buttons during playback allows fast forward play / fast reverse play.
 - To stop video playback, press the  button.
This stops playback and returns to the start of the video clip.
 - To pause video playback, press the **SET** button.
This pauses video playback.
To cancel pause, press the **SET** button again.










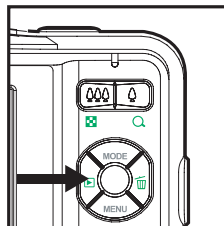
- Video clips cannot be displayed rotated or enlarged.
- You cannot play sounds because the camera does not support the speaker function. Please use PC or other media to play the videos with sounds.
- Windows Media player or QuickTime Player is recommended to play back the video clip on your computer.
- QuickTime Player is a free media player available at www.apple.com; and compatible with Mac and Windows computers.
- For more information about the operation of the media player, refer to its respective help documentation.

PLAYBACK MODE

Playing Back Still Images



You can play back the still images on the LCD monitor.

1. Press the  button.
 - The last image appears on the screen.
2. The images can be displayed in forward or reverse sequence with the  /  buttons.
 - To view the previous image, press the  button.
 - To view the next image, press the  button.
 - Pressing the  button enlarges the image.
 - To return to normal magnification, press the  button.
















Entire image Current position of enlargement





- An  icon is displayed with the video data. Video clips cannot be rotated.
- An  icon is displayed with images which have an audio memo recorded.

Thumbnail Display

This function allows you to view 9 thumbnail images on the LCD monitor at the same time, which can let you quickly search for the image that you want.














1. Press the  button.
 - The last image appears on the screen.
2. Press the  button.
 - The images are displayed in the thumbnail display.
 - Images that have been selected with the  /  /  /  buttons will be indicated by a yellow frame.
 - When there are ten or more images, scroll the screen with the  /  buttons.
3. Press the  /  /  /  buttons to select the image to be displayed at regular size.
4. Press the  button.
 - The selected image is displayed at its regular size.



- An , ,  icon may be displayed in a thumbnail.

Removing Red-eye



You can use this function to remove the red-eye effect after an image is taken.

1. Press the  button.
 - The last image appears on the screen.
2. Select the image that you want to edit with the  /  buttons.
3. Press the  button.
4. Select [Fix Red Eyes] with the  /  buttons, and press the  button.
5. Select [Execute] with the  /  buttons, and press the  button.
6. View the changes on the corrected image.
7. To save your corrected image, select [Confirm] with the  /  buttons, and press the  button.
 - When this process ends, this replaces the original image with the corrected image.



Attaching Voice Memos

A maximum of 30 seconds of audio can be recorded as a memo for captured still images. The voice memo can be recorded only once.

1. Press the  button.
 - The last image appears on the screen.
2. Select the image to which you want to attach the voice memo with the ◀ / ▶ buttons.
3. Press the MENU button.
4. Select [Voice Memo] with the ▲ / ▼ buttons, and press the SET button.
5. Select [On] with the ▲ / ▼ buttons, and press the SET button.
6. Press the MENU button to exit from the menu.
7. Press the SET button.
 - [VOICE RECORDING] is displayed on the screen and recording starts.
8. To stop recording a voice memo as it is being recorded, press the SET button again.
 - [VOICE RECORD END] will be displayed momentarily and the recording will end. An  icon is displayed with images that have been recorded with a voice memo.

Playing back voice memo




You cannot play sounds because the camera does not support the speaker function. Please use PC or other media to play the still images with sounds.



- Voice memo is only available for still images.
- To play the video clip back on your computer, you may use either Windows Media Player or Apple "Quick Time Player".

Protecting Images


Set the data to read-only to prevent images from being erased by mistake.

1. Press the  button.
 - The last image appears on the screen.
2. Select the image that you want to protect with the ◀ / ▶ buttons.
3. Press the MENU button.
4. Select [Protect] with the ▲ / ▼ buttons, and press the SET button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press SET button.
6. Select [Set] with the ▲ / ▼ buttons, and press the SET button.
 - Protection is applied to the image and the camera returns to the playback mode.
 - The protect icon  is displayed with protected images.When [All] has been selected,  is displayed with all the images.



Canceling the Protection

To cancel protection for only one image, display the image on which you want to remove the image protection.



1. Press the  button.
 - The last image appears on the screen.
2. Select the image that you want to cancel protection with the ◀ / ▶ buttons.
3. Press the MENU button.
4. Select [Protect] with the ▲ / ▼ buttons, and press the SET button.
5. Select [Single] or [All] with the ▲ / ▼ buttons, and press the SET button.
6. Select [Cancel Protect] with the ▲ / ▼ buttons, and press the SET button.
 - The removal of image protection is executed and the camera returns to the playback mode.



- Formatting an SD/SDHC memory card overrides protection, and erases all images regardless of their protected status.

Erasing Images

Erasing a single image / Erasing all images

1. Press the  button.
 - The last image appears on the screen.
2. Select the image you want to erase with the ◀ / ▶ buttons.
3. Press the  button.
4. Select [Single] or [All] with the ▲ / ▼ buttons, and press the SET button.
 - [Single]: Erases the selected image or the last image.
 - [All]: Erases all of the images except for the protected images.
5. Select [Execute] with the ▲ / ▼ buttons, and press the SET button.
 - To not erase, select [Cancel], and press the SET button.
6. To exit from the menu, press the MENU button.

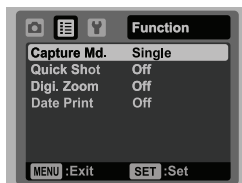
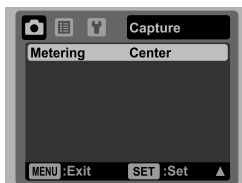
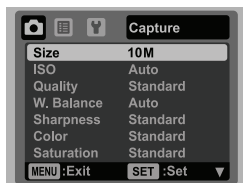


- Deleting an image will not affect sequential image numbering. For example, if you delete image number 240, the next captured image will be numbered 241 even though 240 no longer exists. In other words, an image-number is retired when an image is deleted and will not be reused or reassigned to another subsequently captured image.

MENU OPTIONS

Capture Menu

This menu is for the basic settings to be used when capturing still images.



1. Press the ON/OFF button to turn the power on.
2. Press the MODE button, and set the camera mode to any scene mode.
3. Press the MENU button, and select the [Capture] / [Function] menu with the ◀ / ▶ buttons.
4. Select the desired option item with the ▲ / ▼ buttons, and press the SET button to enter its respective menu.
 - The selectable items may vary in different capture modes.
5. Select the desired setting with the ▲ / ▼ buttons, and press the SET button.
6. To exit from the menu, press the MENU button.

Size

This sets the size of the image that will be captured.

- * [10M] 3648 x 2736
- * [6M] 2816 x 2112
- * [4M] 2304 x 1728
- * [2M] 1600 x 1200
- * [VGA] 640 x 480

ISO

This sets the sensitivity for capturing images. When the sensitivity is raised (and the ISO figure is increased), photography will become possible even in dark locations, but the more pixelated (grainier) the image will appear.

- * [Blank] Auto
- * [ISO 64] ISO 64
- * [ISO 100] ISO 100
- * [ISO 200] ISO 200
- * [ISO 400] ISO 400
- * [ISO 800] ISO 800
- * [ISO 1600] ISO 1600







Quality

This sets the quality (compression) at which the image is captured.

- * [] Fine
- * [] Standard
- * [] Economy

W. Balance

This sets the white balance for a variety of lighting conditions and permits images to be captured that approach the conditions that are seen by the human eye.

- * [Blank] Auto
- * [] Incand.
- * [] Fluoresc. 1
- * [] Fluoresc. 2
- * [] Daylight
- * [] Cloudy
- * [] Manual WB

Sharpness

This sets the sharpness of the image that will be captured.

- * Hard / Standard / Soft

Color

This sets the color of the image that will be captured.

- * Standard / Vivid / Sepia / B&W / Blue / Red / Green / Yellow / Purple

Saturation

This sets the saturation of the image that will be captured.

- * High / Standard / Low




Metering

This sets the metering method for calculating the exposure.

- * Center: Averages the light metered from the entire frame, but gives greater weight to the subject matter at the center.
- * Spot: A very small portion of the center of the screen is measured to calculate the correct exposure.
- * Average: The exposure is measured all of the image area.

Capture Md.

This sets the recording method at the time of capturing images.

- * [Blank] Single: Captures one image at a time.
- * [] Continuous: Permits continuous capture of up to 3 images.
- * [] AEB: Permits 3 consecutive images in the order of standard exposure, underexposure and overexposure compensation.
- * [] Album Shot: Creates an album-like layout to combine 3 shots into a single image.

Quick Shot

If this function is set to "On", the camera takes a quick shot without focusing.

- * On / Off

Digi. Zoom

This sets whether or not to use digital zoom at the time of photography.

- * On / Off

Date Print

The date of recording can be printed directly on the still images. This function must be activated before the image is captured.

- * On / Off

Video Menu


This menu is for the basic settings to be used when recording video clips.




1. Press the **MODE** button, and set the camera mode to [VGA].
2. Press the **MENU** button, and select the [Capture] / [Function] menu with the ◀ / ▶ buttons.
3. Select the desired option item with the ▲ / ▼ buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the **SET** button
5. To exit from the menu, press the **MENU** button.

Size


This sets the size of the video clip that will be captured.

* [ VGA] 640 x 480

* [ VGA] 320 x 240

Quality

This sets the quality (compression) at which the video clip is captured.

* [] Fine

* [] Standard

Color

This sets the color of the video clip that will be captured.

* Standard / Vivid / Sepia / B&W / Blue / Red / Green / Yellow / Purple

Audio

This sets whether or not to record audio at the time of video recording.

* On / Off

Digi. Zoom

Refer to the section in this manual titled “Digi. Zoom” in Capture Menu (page 32) for further details.

Playback Menu

In the [] mode, choose which settings are to be used for playback.



1. Press the [] button.
2. Press the MENU button.
3. Select the desired option item with the ▲ / ▼ buttons, and press the SET button to enter its respective menu.
4. Select the desired setting with the ▲ / ▼ buttons, and press the SET button.
5. To exit from the menu, press the MENU button.

Fix Red Eyes

Refer to the section in this manual titled “Removing Red-eye” (page 26) for further details.

Slide Show

This function enables you to play back your still images automatically in order one image at a time.

* 3 Sec. / 5 Sec. / 10 Sec.

Rotate

If you wish to rotate a still image 90 degrees to the right, select +90°; if you wish to rotate it 90 degrees to the left, select -90°. Video clips cannot be rotated.

* +90° / -90°

Protect

Refer to the section in this manual titled “Protecting Images” (page 28) for further details.

Voice Memo

Refer to the section in this manual titled “Attaching Voice Memos” (page 27) for further details.

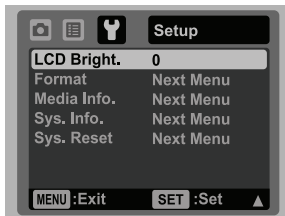
Copy to Card

Allows you to copy your files from the camera's internal memory to an SD/SDHC memory card. Of course, you can only do this if you have a memory card installed and some files in internal memory. All files remain in the internal memory, even after copy to the SD/SDHC memory card from the internal memory.

* Cancel / Execute

Setup Menu

Set your camera's operating environment.



1. Press the **MODE** button, and set the camera mode to [**A**] or [**99**]; or press the **▶** button.
2. Press the **MENU** button, and select the [Setup] menu with the **▶** button.
3. Select the desired option item with the **▲** / **▼** buttons, and press the **SET** button to enter its respective menu.
4. Select the desired setting with the **▲** / **▼** buttons, and press the **SET** button.
5. To exit from the menu, press the **MENU** button.

Date/Time

Refer to the section in this manual titled "Setting the Date and Time" (page 16) for further details.

Language

Refer to the section in this manual titled "Choosing the Language" (page 17) for further details.

Auto Off

If no operation is performed for a specific period of time, the power to the camera is automatically turned off. This feature is useful for reducing battery usage.

* 1 Min. / 2 Min. / 3 Min. / Off

Beep

This sets whether or not to mute the camera sound each time you press the camera's buttons.

* On / Off

Display

This sets the image information display state.

* Default / All / Off

Fr. No. Reset

This creates a new folder. The captured images are recorded to the newly created folder from number 0001.

* Cancel / Execute

Light Freq.

This camera supports different lighting frequencies: 50 Hz and 60 Hz. When photographing under fluorescent lighting, select the correct frequency setting depending in your local area's voltage.

* 50 Hz / 60 Hz

LCD Bright.

Select a brightness level for the LCD monitor. The LCD becomes brighter with the ▲ button and darker with the ▼ button. The adjustment range is from -5 to 5.

Format

Refer to section in this manual titled "Formatting the Memory Card or Internal Memory" (page 17) for further details.

Media Info.

This displays the free capacity of the internal memory or the memory card.

Sys. Info.

This displays the firmware version of the camera.

Sys. Reset

This returns all basic settings to the camera's default settings. The time setting will not be reset.

* Cancel / Execute

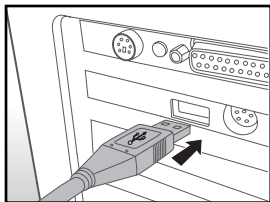
TRANSFERRING FILES TO YOUR COMPUTER

System Requirement

Windows	Macintosh
<ul style="list-style-type: none">■ Pentium III 800 or equivalent■ Windows 2000/XP/Vista■ 256MB RAM (512MB recommended)■ 150MB available hard disk space■ CD-ROM drive■ Available USB port	<ul style="list-style-type: none">■ PowerPC G3/G4/G5■ OS 9.0 or later■ 256MB RAM (512MB recommended)■ 128MB available hard disk space■ CD-ROM drive■ Available USB port

Downloading Your Files

1. Connect one end of the USB cable to an available USB port on your computer.
2. Connect the other end of the USB cable to the USB terminal on the camera.
3. Turn on your camera.
4. Select [PC] using the ▲ / ▼ buttons and press the SET button.
5. From the Windows desktop, double click on "My Computer".
6. Look for a new "removable disk" icon.
 - This "removable disk" is actually the memory (or memory card) in your camera. Typically, the camera will be assigned drive letter "e" or higher.
7. Double click on the removable disk and locate the DCIM folder.
8. Double click on the DCIM folder to open it to find more folders.
 - Your recorded images and video clips will be inside these folders.
9. Copy & Paste or Drag-N-Drop image and video files to a folder on your computer.



Mac users: Double-click the "untitled" or "unlabeled" disk drive icon on your desktop. iPhoto may automatically launch.

EDITING SOFTWARE INSTALLATION

There are 2 types of software that are included on the CD-ROM:

MediaOne Gallery SE - makes it the easiest way to manage and share your digital life with family & friends. The intuitive thumbnail library automatically organizes, updates and sorts files for the most natural way to browse your multimedia collection.

Arcsoft Panorama Maker® 4.0 - Like magic, ArcSoft Panorama Maker® 4 turns any series of overlapping photos into a gorgeous panoramic image in just seconds. The program does most of the work for you by automatically selecting an entire group of pictures with one click, automatically organizing the photos into the proper order, then seamlessly stitching the photos into a panoramic masterpiece that you can print, share or post to the web. Create horizontal, vertical and 360° panorama pictures all within this one amazing program.

To install software:

1. Insert the CD-ROM that came with the camera into your CD-ROM drive.
The welcome screen appears.
2. Click the respective software name.
Follow the on-screen instructions to complete the installation.



-
- For more information about the operation of the software, refer to its respective help documentation.
 - For Windows 2000/XP/Vista users, please make sure to install and use the software in "Administrator" mode.
 - The software is not supported by Mac.

SPECIFICATIONS

Item	Description
Image sensor	1/2.33" CCD sensor (10.0 megapixels)
Image resolution	Still image 3648 x 2736, 2816 x 2112, 2304 x 1728, 1600 x 1200, 640 x 480 Video clip 640 x 480 (25 fps), 320 x 240 (25 fps)
LCD monitor	2.7" full color TFT LCD (230K pixels)
Recording media	32MB internal memory (26MB available for image storage) Supports SD/SDHC memory card (up to 8GB) (optional)
File format	DCF, JPEG (EXIF 2.2), Motion-JPEG (AVI)
Lens	3x optical zoom lens Aperture range: 2.9(W) - 5.4(T) Focal length: 6.4mm - 19.2mm (equivalent to 38mm - 114mm on a 35mm camera)
Focus Range	Macro Wide: 0.05m to infinity Tele: 0.4m to infinity
Shutter speed	1 - 1/2000 sec.
Sensitivity	Still image Auto (ISO 64-200) Manual (ISO 64/100/200/400/800/1600) * Sensitivity is measured in compliance with the ISO standard (ISO12232:2006).
Digital zoom	6x (Capture mode) 4x (Playback mode)
Flash effective range	0.5m - 2.4m (Wide) 0.5m - 2.1m (Tele)
Terminals	USB 2.0
Power supply	2 x AA size batteries
Operating environment	Temperature: 0°C - 40°C(32°F to 104°F) Humidity: 10% - 85%(Non-condensing)
Dimensions	Approx. 94.5 x 61.7 x 27.8mm (Slimmest 20mm) (without protruding parts)
Weight	Approx. 120g (without batteries and memory card)





















* Design and specifications are subject to change without notice.

APPENDIX







Possible Number of Shots

Possible number of shots (still image)

The table shows the approximate shots that you can capture at each setting based on the capacity of the internal memory and the SD/SDHC memory card.

Size	Quality	Internal Memory	SD/SDHC memory card capacity						
			128MB	256MB	512MB	1GB	2GB	4GB SDHC	8GB SDHC
 3648 x 2736	 Fine	4	21	44	90	180	362	725	1456
	 Standard	10	49	99	199	399	800	1603	3217
	 Economy	12	58	118	237	476	953	1909	3831
 2816 x 2112	 Fine	12	60	121	243	487	976	1954	3923
	 Standard	16	78	159	319	640	1281	2565	5149
	 Economy	18	86	174	351	703	1409	2820	5661
 2304 x 1728	 Fine	22	103	208	418	837	1677	3357	6738
	 Standard	24	115	231	465	932	1866	3734	7494
	 Economy	28	133	269	540	1083	2168	4339	8708
 1600 x 1200	 Fine	44	206	415	833	1668	3340	6685	13414
	 Standard	52	242	488	980	1963	3931	7867	15786
	 Economy	59	273	549	1101	2206	4417	8840	17739
 640 x 480	 Fine	114	525	1056	2120	4246	8499	17008	34129
	 Standard	125	577	1160	2328	4662	9332	18676	37476
	 Economy	147	677	1361	2731	5470	10949	21911	43967

Possible recording time / sec (video clip)

Size	Quality	Internal Memory	SD/SDHC memory card capacity						
			128MB	256MB	512MB	1GB	2GB	4GB SDHC	8GB SDHC
 640 x 480	 Fine	00:00:22	00:01:43	00:03:28	00:06:57	00:13:55	00:27:52	00:55:47	01:51:57
	 Standard	00:00:27	00:02:07	00:04:16	00:08:35	00:17:11	00:34:24	01:08:51	02:18:10
 320 x 240	 Fine	00:01:17	00:05:58	00:12:00	00:24:05	00:48:14	01:36:33	03:13:14	06:27:47
	 Standard	00:01:33	00:07:08	00:14:22	00:28:49	00:57:43	01:55:32	03:51:13	07:43:59

* We recommend a memory card of at least 10MB/Sec write speed to prevent auto stop or unexpected results. If you experience an error using a slower SD/SDHC memory card, you can set your camera's video recording to QVGA (320 x 240) and standard quality.

Troubleshooting

Refer to the symptoms and solutions listed below before sending the camera for repairs. If the problem persists, contact your local reseller or service center.

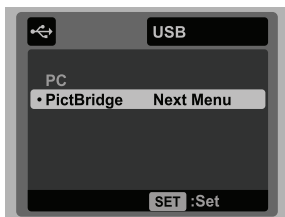
Symptom	Cause	Solutions / Corrective Actions
The power does not come on.	The batteries are not inserted.	Load the batteries correctly.
	The batteries are exhausted.	Replace with a new set of batteries.
The batteries or camera feels warm.	Long period of continuous use of the camera or the flash.	
Even if press the shutter button, the camera does not take a picture.	The shutter button is not pressed all the way down.	Press the shutter button all the way down.
	The memory card does not have any free capacity.	Insert a new memory card, or delete unwanted files.
	The memory card is write-protected.	Remove the write-protection.
Images do not appear on the LCD monitor.	LCD monitor is dark.	Adjust the brightness of the LCD monitor in the menu.
Although it is set to auto focus, it does not focus.	The lens is dirty.	Wipe clean with a soft, dry cloth or lens paper.
	The distance to the subject is smaller than the effective range.	Get your subject within the effective focus range.
The contents on the memory card cannot be played back.	You played back a memory card that was not formatted by this camera.	Insert a memory card that was formatted on this camera.
Files cannot be deleted.	The file is protected.	Cancel protection.
	The memory card is write-protected.	Remove the write-protection.
The date and time are wrong.	The correct date and time is not set.	Set the correct date and time.
Cannot download images.	The free space on the hard disk in your computer may be insufficient.	Check whether the hard disk has space for running Windows, and if the drive for loading image files has a capacity at least that of the memory card inserted in the camera.
	No power supply.	Replace with a new set of batteries.

Connecting to a PictBridge Compliant Printer

If a printer that supports PictBridge is available, images can be printed by connecting the digital still camera directly to the PictBridge-compatible printer without using a computer.

Connecting the camera to the printer

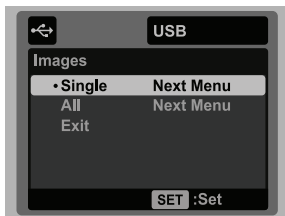
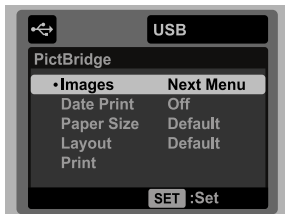
1. Connect one end of the USB cable to your camera.
2. Connect the other end of the USB cable to the USB port on the printer.
3. Turn on your camera.
4. The [USB] screen is displayed. Select [PictBridge] with the ▲ / ▼ buttons, and press the SET button.



Printing images

When the camera is properly connected to a PictBridge compliant printer, the PictBridge menu is displayed on the monitor.

1. Select the item you want to configure with the ▲ / ▼ buttons, and press the SET button.
 - [Images]: Select whether you want to print specific image or all images. You may also select the printing number for a specific image.
 - [Date Print]: According to the printer type, select whether you want to print the image with date imprint or not.
 - [Paper Size]: Select the desired paper size according to the printer type.
 - [Layout]: Select the desired printing layout according to the printer type.
 - [Print]: After all settings are configured, select this item to start printing.
2. If you select [Images] in the previous step, the figure shown on the right hand side will appear. Select [Single] or [All] with the ▲ / ▼ buttons, and press the SET button.
 - [Single]: Select to print one specific image.
 - [All]: Select to print all images.
 - [Exit]: Exit from Images option.



3. If you select [Single] in the previous step, the figure shown on the right hand side will appear.

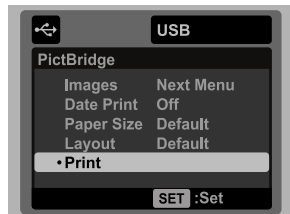
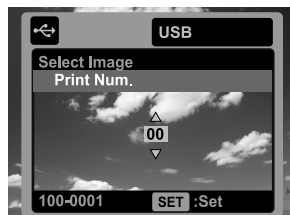
- Select the image that you want to print with the ◀ / ▶ buttons.
- Select the [Print Num.] (up to 99) with the ▲ / ▼ buttons.
- After selecting the desired image and printing number, press the SET button to confirm.

4. Select [Exit] with the ▲ / ▼ buttons, and press the SET button.

5. Select [Print] with the ▲ / ▼ buttons, and press the SET button to start printing.

6. The printing starts and the figure shown on the right hand side appears.

- [COMPLETE] will be displayed temporarily, reminding you that the printing procedure is finished.
- If an error is detected during the connection (i.e. a printer hardware problem) between camera and printer, [PRINT ERROR] will be displayed.
- If an error is detected during the communication (i.e. wrong setting on the camera) between camera and printer, [ERROR] will be displayed.



- The image printing may fail if the power to the camera is cut off.



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